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10/773,486	02/06/2004	Willy Maurice Verbestel	11491-US-PAT (4214-25600)	6813
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CONLEY ROSE, P.C. 5601 GRANITE PARKWAY, SUITE 750 PLANO, TX 75024			SIDDIQI, MOHAMMAD A	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/773,486	Applicant(s) VERBESTEL, WILLY MAURICE	
	Examiner MOHAMMAD A. SIDDIQI	Art Unit 2454	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 July 2010.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-23, 26 and 27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-23, 26 and 27 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>07/14/2010</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-23 and 26-27 are examined. Claims 24-25 have been cancelled.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

3. Claims 1, 26 and 27 are rejected under 35 U.S.C. 102(e) as being anticipated by Akiyama et al. (7,072,865) (Hereinafter Akiyama).

4. As per claim 1, Akiyama discloses a multicast content accessing method for use on a user device, wherein a multicast service provides the multicast content , comprising:

receiving multicast service activation data over a network (fig 51);

generating on the user device a broadcast key (broadcast receiver places a call and sends call originating command packet, the command packet includes

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the key containing receiver ID [col 32, lines 40-43]; figs. 47-50, col 31, lines 56-60);

sending from the user device the generated broadcast key over a network (figs 19-20, col 15, lines 30-52; col 32, lines 11-43, "If the challenge is a receiver ID inquiry (step S111), "the response generator 154 extracts the receiver ID from the receiver ID storage 106 (step S115), **generates a response packet (FIG. 18) by converting that receiver ID into a predetermined response information format (step S116), and sends that packet to the center via the inter-center communication device 152 (step S117).** (114) If the challenge is a master key identifier inquiry (step S112), the response generator 154 acquires a master key identifier (step S118), generates a response packet as in step S116 (step S119), and sends it to the center (step S120). ");

wherein the generated broadcast key indicates that multicast content is to be provided to the user device (broadcast wave, fig 50, col 32. lines 4-24; col 2, lines 36-43).

wherein the generated broadcast key indicates that multicast content is to be provided to the user device (broadcast wave, fig 50, col 32. lines 4-24; col 2, lines 36-43).

5. As per claim 26, the claim is rejected for the same reason as claim 1, above in addition, Akiyama discloses a data storage mechanism that stores user identification key and multicast service activation data (fig 51, broadcast receiver stores the key

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information locally [see fig 51], the command packet includes the key containing receiver ID col 32, lines 40-43); key generation operation instructions configured to generate on the user device a broadcast key based upon the stored user identification key and the multicast service activation data (broadcast receiver places a call and sends call originating command packet, the command packet includes the key containing receiver ID [col 32, lines 40-43]; figs. 47-50, col 31, lines 56-60); instructions configured to send from the user device the generated broadcast key over a network (figs 19-20, col 15, lines 30-52; col 32, lines 11-43, "If the challenge is a receiver ID inquiry (step S111), "the response generator 154 extracts the receiver ID from the receiver ID storage 106 (step S115), **generates a response packet (FIG. 18) by converting that receiver ID into a predetermined response information format (step S116), and sends that packet to the center via the inter-center communication device 152 (step S117).** (114) If the challenge is a master key identifier inquiry (step S112), the response generator 154 acquires a master key identifier (step S118), generates a response packet as in step S116 (step S119), and sends it to the center (step S120)."); wherein the generated broadcast key indicates that multicast content is to be provided to the user device (broadcast wave, fig 50, col 32. lines 4-24; col 2, lines 36-43).

6. As per claim 27, the claim is rejected for the same reason as claim 26, above in addition.

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 2 -23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Akiyama et al. (7,072,865) (Hereinafter Akiyama) in view of Sarkkinen et al. (20050015583) (Hereinafter Sarkkinen).

9. As per claim 2, Akiyama fails to disclose the multicast content is transmitted to the user device via a unidirectional point-to-multipoint transmission. However, Sarkkinen discloses the multicast content is transmitted to the user device via a unidirectional point-to-multipoint transmission (para #0012; para #0019). It would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine the teachings of Akiyama and Sarkkinen. The motivation would have been to provide secure pay broadcast services, which can prevent wrong audience without pressing the broadcast band even when the number of subscribers increases.

10. As per claim 3, the claim is rejected for the same reasons as claim 2 above. In addition, Sarkkinen discloses the unidirectional point-to-multipoint transmission occurs

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over a 3G wireless network (para #0019; para #0179).

11. As per claim 4, the claim is rejected for the same reasons as claim 2 above. In addition, Sarkkinen discloses the unidirectional point-to-multipoint transmission occurs within a Multimedia Broadcast/Multicast Service (MBMS) system (fig 7, Para #0210).

12. As per claim 5, the claim is rejected for the same reasons as claim 2 above. In addition, Sarkkinen discloses the multicast content includes messages, text, audio, pictures, or video from a single source (para #0093).

13. As per claim 6, the claim is rejected for the same reasons as claim 2 above. In addition, Sarkkinen discloses a subscription to the multicast service allows the user device to receive the multicast content (para #0120).

14. As per claim 7, the claim is rejected for the same reasons as claim 2 above. In addition, Sarkkinen discloses other user devices subscribe to the multicast service (UE, fig 7, para #0034), thereby forming a multicast subscription group (para #0034); wherein a subset of user devices from the multicast subscription group are receiving the multicast content (para #0034).

15. As per claim 8, the claim is rejected for the same reasons as claim 2 above. In addition, Sarkkinen discloses the broadcast key is common to all subscribers of a given

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multicast service and is used to access the multicast content (fig 7, para #0034).

16. As per claim 9, the claim is rejected for the same reasons as claim 2 above. In addition, Sarkkinen discloses a virtual key is provided to the user device that indicates to the user device to clear the broadcast key used to access the multicast service (para #0028, ciphering key).

17. As per claim 10, the claim is rejected for the same reasons as claim 2 above. In addition, Sarkkinen discloses the received multicast service activation data activates for the user device the multicast service that provides the multicast content (para #0029).

18. As per claim 11, the claim is rejected for the same reasons as claim 2 above. In addition, Sarkkinen discloses the broadcast key is generated on the user device based upon the received multicast service activation data (para #0030).

19. As per claim 12, the claim is rejected for the same reasons as claim 2 above. In addition, Sarkkinen discloses the broadcast key is generated on the user device based upon a user identification key (para #0030-#0032).

20. As per claim 13, the claim is rejected for the same reasons as claim 2 above. In addition, Sarkkinen discloses the broadcast key is generated on the user device based upon a user identification key and the received multicast service activation data (para

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#0030-#0032).

21. As per claim 14, the claim is rejected for the same reasons as claim 2 above. In addition, Sarkkinen discloses the user identification key is provided to the user device at about the time when a user of the user device subscribes to the multicast service (para #0053).

22. As per claim 15, the claim is rejected for the same reasons as claim 2 above. In addition, Sarkkinen discloses the multicast service activation data is an activation key that is provided at about the time when a contract or payment is received from a user of the user device (para #0133).

23. As per claim 16, the claim is rejected for the same reasons as claim 2 above. In addition, Sarkkinen discloses the multicast service activation data is different for each user of the multicast service (para #0133-#0134).

24. As per claim 17, the claim is rejected for the same reasons as claim 2 above. In addition, Sarkkinen discloses the broadcast key is generated on the user device by applying a function to a user identification key and the received multicast service activation data (para 30135-#0139).

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25. As per claim 18, the claim is rejected for the same reasons as claim 2 above. In addition, Sarkkinen discloses the same broadcast key value is generated by user devices having different multicast service activation data (para #0135-#0139).

26. As per claim 19, the claim is rejected for the same reasons as claim 2 above. In addition, Sarkkinen discloses a user device's broadcast key generation function is known to the user device but is not known to other user devices (SIM, para #0146).

27. As per claim 20, the claim is rejected for the same reasons as claim 2 above. In addition, Sarkkinen discloses the broadcast key generated by the function can be changed by providing a different activation keys to the provider (para #0126).

28. As per claim 21, the claim is rejected for the same reasons as claim 2 above. In addition, Sarkkinen discloses the user device accesses different multicast services of a provider by providing different broadcast keys to the provider (para #0150; #0271;); wherein the different broadcast keys are generated on the user device (para #0150; para #0271).

29. As per claim 22, the claim is rejected for the same reasons as claim 2 above. In addition, Sarkkinen discloses the user device is a handheld wireless mobile communications device (para #0156).

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30. As per claim 23, the claim is rejected for the same reasons as claim 2 above. In addition, Sarkkinen discloses a non-transitory computer-readable medium storing instructions which, when executed, are capable of causing a user device to perform the method of claim 1 (para #0159).

Response to Arguments

31. Applicant's arguments filed 07/14/2010 have been fully considered but they are not persuasive, therefore rejections to claims 1-23 and 26-27 is maintained.

32. In the remarks applicants argued that:

Argument: Akiyama does not disclose sending from the user device the generated broadcast key over a network; wherein the generated broadcast key indicates that multicast content is to be provided to the user device.

Response: Akiyama discloses sending from the user device the generated broadcast key over a network (figs 19-20, col 15, lines 30-52; col 32, lines 11-43, "If the challenge is a receiver ID inquiry (step S111), "the response generator 154 extracts the receiver ID from the receiver ID storage 106 (step S115), generates a response packet (FIG. 18) by converting that receiver ID into a predetermined response information format (step S116), and sends that packet to the center via the inter-center communication device 152 (step S117). (114) If the challenge is a master key identifier inquiry (step S112), the response generator 154 acquires a master key

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identifier (step S118), generates a response packet as in step S116 (step S119), and sends it to the center (step S120). “); wherein the generated broadcast key indicates that multicast content is to be provided to the user device (broadcast wave, fig 50, col 32. lines 4-24; col 2, lines 36-43).

33. In response to Applicant’s arguments **against the references individually**, one cannot show non-obviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986). In this case, Akiyama discloses sending from the user device the generated broadcast key over a network (figs 19-20, col 15, lines 30-52; col 32, lines 11-43, “If the challenge is a receiver ID inquiry (step S111), “the response generator 154 extracts the receiver ID from the receiver ID storage 106 (step S115), generates a response packet (FIG. 18) by converting that receiver ID into a predetermined response information format (step S116), and sends that packet to the center via the inter-center communication device 152 (step S117). (114) If the challenge is a master key identifier inquiry (step S112), the response generator 154 acquires a master key identifier (step S118), generates a response packet as in step S116 (step S119), and sends it to the center (step S120). “). Sarkkinen discloses the multicast content is transmitted to the user device via a unidirectional point-to-multipoint transmission (para #0012; para #0019). It would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine the teachings of Akiyama and Sarkkinen. The motivation would have been to

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provide secure pay broadcast services, which can prevent wrong audience without pressing the broadcast band even when the number of subscribers increases.

Sarkkinen further discloses a virtual key [ciphering key] is provided to the user device that indicates to the user device to clear the broadcast key used to access the multicast service (para #0028, ciphering key).

Conclusion

34. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MOHAMMAD A. SIDDIQI whose telephone number is (571)272-3976. The examiner can normally be reached on Monday -Thursday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan J. Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MS

/NATHAN FLYNN/
Supervisory Patent Examiner, Art Unit 2454